a willer

## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE     |
|---------------------------|----------|--------|----------|
| FEE DETERMINATION         |          | 1      | 1        |
| O.I.P.E. CLASSIFIER       |          | 11     | 12/29    |
| FORMALITY REVIEW          | TH       | 953    | 01-dy-ki |
| RESPONSE FORMALITY REVIEW | ish      | (1%)   | 4-32-01  |

## INDEX OF CLAIMS

| V | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
| = | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

| 3              |                            |          |           |        |              |                |          |          |          |              |              |                 |          |          |              |          |          |          |          |          |               |       |     |                |   |          |          |          |           |          |  |  |  |          |              |          |          |
|----------------|----------------------------|----------|-----------|--------|--------------|----------------|----------|----------|----------|--------------|--------------|-----------------|----------|----------|--------------|----------|----------|----------|----------|----------|---------------|-------|-----|----------------|---|----------|----------|----------|-----------|----------|--|--|--|----------|--------------|----------|----------|
| Cla            | aim                        |          |           |        |              | Dat            | e        |          |          |              |              |                 | Cla      | im       |              |          |          |          | Dat      | е        |               |       |     |                |   | Cla      | im       |          |           |          |  | Dat  | e  |          |              |          |          |
| Final          | Original                   | 4442     | 10 155/2  | 6/3    |              |                |          |          |          |              |              |                 | Final    | Original |              |          |          |          |          |          |               |       |     |                | ! | Final    | Original |          |           |          |  |  |  |          |              |          |          |
| 1              | 0                          | 7        | 1         | =      |              |                |          |          |          |              |              |                 |          | 51       |              |          |          |          |          |          |               |       |     |                |   |          | 101      |          |           |          |  |  |  |          |              | ٦        | _        |
| 2              | 2                          | 1        | П         | $\Box$ |              |                |          |          |          |              |              |                 |          | 52       |              |          |          |          |          |          |               |       |     |                |   |          | 102      |          |           |          |  |  |  |          |              |          |          |
| 3 4 5          | 3                          | T        | U         | П      | Ι_           |                |          |          |          |              |              |                 |          | 53       |              |          |          |          |          |          |               |       |     |                |   |          | 103      |          |           |          |  |  |  |          |              |          |          |
| 4              | 4                          |          | П         | П      | Ŀ            | Ľ              | <u> </u> |          |          |              |              |                 |          | 54       |              |          |          |          |          |          |               |       | _   |                |   | L        | 104      | _        |           |          |  |  |  |          | $\Box$       | $\Box$   |          |
| 5              | 5                          | 4        | Ц         | Н      | <u> </u>     | <u> </u>       | L_       | <u> </u> |          | _            | _            |                 | <u> </u> | 55       |              |          |          |          | _        |          |               |       | _   | _              |   | _        | 105      | _        | _         |          |  |  |  |          | _            |          |          |
| 6              | 6                          | 4        | Н         | Н      | -            | ļ              |          |          | _        | ļ            | L            |                 | ļ        | 56       |              |          |          |          |          | _        |               |       |     |                |   | <u> </u> | 106      | _        |           |          |  |  |  |          | _            | _        |          |
| 17             | 7                          | 4        | Н         | Н      | <u> </u>     | L              | L        | ļ        |          |              | <u> </u>     |                 | -        | 57       |              |          |          |          | $\dashv$ |          |               |       | _   | -              |   | <u> </u> | 107      | -        |           |          |  |  |  | -        |              | -        | _        |
| 8              | 8                          | 4        | $\sqcup$  | H      | <del> </del> | ├              | ├        |          | <u> </u> | <u> </u>     | <u> </u>     |                 | <u> </u> | 58       |              |          |          |          | -        |          |               |       |     | {              |   |          | 108      |          |           |          |  |  |  |          | -            | -        | -        |
| 9              | 9                          | +        | $\square$ | ╁┼     | ├            | -              | ├        |          |          | _            |              |                 | <u> </u> | 59       |              |          |          |          |          | $\dashv$ | {             |       | -   | $\dashv$       |   | ⊢        | 109      | $\dashv$ |           |          |  |  |  |          | $\vdash$     | -1       | -        |
| 10             | 11                         | +        | 14        | #      | 1-           | ╁┶             | -        | rt       |          | <del> </del> | ├            | ·~.             | <u> </u> | 60<br>61 | -            | Н        |          |          |          |          |               |       | -   | $\dashv$       |   | ┝        | 111      | -        |           |          |  | -  | Н  |          | -            | -        | -        |
| 11             | 12                         | +        | +         | ╁      | ╁            | <del>  -</del> | -        | -        | -        | -            | -            |                 | -        | 62       |              | -        | _        |          |          |          |               | -     | -   | -              |   | ├        | 112      | -        |           |          | -  |  |  |          | Н            |          | -        |
| 12             | 13                         | H        | ┧         | ┋      | +            | $\vdash$       |          |          |          |              |              |                 |          | 63       |              |          |          |          |          |          |               | -     |     |                |   |          | 113      | -        |           |          | -  | _  |  |          | $\vdash$     | $\vdash$ | -        |
| 13             | (14)                       | H        | 13        | *5     | +            | ┢              | -        | -        |          | i-           | -            |                 | -        | 64       | -            | -        |          |          |          |          |               | -     |     | -              |   | H        | 114      | $\dashv$ | -         | -        | _  |  |  | -        | Н            |          | $\vdash$ |
| 14             |                            | H        | 1         | 10     | +-           | -              | -        | -        | -        | -            | -            |                 | -        | 65       | -            | -        | -        | -        | -        |          |               |       |     | $\vdash$       |   | $\vdash$ | 115      | -        |           |          |  |  |  |          | $\vdash$     | Н        |          |
| 15             | 16                         | H        | T X       | 17     | +            | <del> </del>   | +-       | -        | -        | -            | -            | İ               | -        | 66       |              |          | -        | -        | -        | $\vdash$ |               |       | -   |                |   | -        | 116      |          |           |          | -  |  |  |          |              |          | _        |
| 13             | (T)                        | +        | 1         |        |              | $\vdash$       | $\vdash$ |          |          | -            | <del> </del> | İ               |          | 67       |              |          |          |          |          | _        |               |       |     |                |   | $\vdash$ | 117      |          |           |          | _  |  |  |          |              |          | _        |
| 16             | 18                         | 1        | 17        | 汘      | 1            | T              | $\vdash$ |          |          | -            | _            | ĺ               |          | 68       |              |          | _        |          |          |          |               |       |     |                |   | -        | 118      |          |           |          |  |  |  | П        | П            | П        | Г        |
| 19             | 19                         | Ħ        | 1         | 7      | 1            | ,              | 1,-      | 1        | ٠.       | -            | $\vdash$     | ,               |          | 69       |              |          |          | П        |          |          |               |       |     |                |   |          | 119      |          |           |          |  |  |  | П        | П            | П        | Г        |
| d <sub>a</sub> | (a)                        | H        | 60        |        | 1            | £4.            | ĭ.       | Ú.       |          |              |              |                 | <u> </u> | 70       | _            |          | Г        |          |          |          |               |       |     |                |   |          | 120      |          |           |          |  |  |  |          | П            | П        | Γ        |
| 180            | T.                         |          |           | 100    |              | 础              |          | 111      |          | 1            | 7.0          | 7.7             | 10       | 71       | Tug.         | ميدي     | 197      | الاسي    | . 7.     | 7.7      |               |       |     |                |   | $\vdash$ | 121      | 20       | 11.       | 2        | -  |  | - 8  |          | 3.           |          | 2        |
| 1              | 1                          |          | 25        | 23     |              | 3.5            | 1        | 八        | 3        | 3            | 39           |                 |          | 72       | ٠,           | 2;       | ,,`      |          |          |          |               |       |     |                |   | 1        | 122      |          |           | Г        | -  |  |  |          |              | М        | -        |
|                | 23                         | H        | 1         | Ť      |              | :              | -        | :        | Ť        | -            | Ė            | 4               |          | 73       | Ė            |          |          |          |          |          |               |       |     |                |   |          | 123      |          |           |          |  |  |  | П        |              |          |          |
| Ι.             | 22<br>23<br>24             | П        | Τ         |        |              |                | Ť        |          |          | Г            | Г            |                 | $\Box$   | 74       |              |          |          |          |          |          |               | -     |     |                |   |          | 124      |          |           |          |  |  |  | П        |              |          |          |
| 20             |                            |          | ÷         | 1      | 18           | . 3            | 龙        | 微        | 10       | Ç            | . %          | 100             | 1.       | 75       | -            |          | ,        |          |          | ·        |               |       |     |                |   |          | 125      | ;        | 1         |          | +  |  | 45   | ,5       | 1.           | 1        | -        |
| 20<br>지        | 26                         | П        | П         | 1      | 14.          | 5.13           | 174      | .0       | ;÷:      |              | Г            |                 |          | 76       |              |          |          |          |          |          |               |       |     |                |   |          | 126      |          |           |          |  |  |  |          |              |          | L        |
| 2.             | 27                         | $\prod$  | П         | 1      | ,c           | 5.7            | Ä.,      | -3       | î.       |              | 2            |                 |          | 77       |              |          |          |          |          |          |               |       |     |                |   |          | 127      |          |           |          |  |  | Ĺ  |          |              | oxdot    | L        |
| 23             | 28                         | Ц        | Ш         | Ш      |              |                | Ŀ        |          |          |              | L            |                 | L        | 78       | L            | <u> </u> |          | L.       |          |          |               |       |     |                |   | L.       | 128      |          | L         |          | ļ  | L_   |  | $\sqcup$ | $oxed{oxed}$ |          | <u> </u> |
| 24             | 29                         | Ц        | Ш         | Ш      | Ľ.           | Ľ              | Ļ.       |          | L        | L            |              |                 |          | 79       | L            | L        |          |          |          |          |               |       |     |                |   | L.       | 129      |          |           |          | _  |  | L  |          | _            |          | _        |
| 25             | 30                         |          | 11        | 10     | 323          | 13.            | 3        | ŵ        | ŵ        | A*           |              | į.              | <u> </u> | 80       | Ŀ            | L        |          | Щ        | Ш        | Ш        |               |       |     |                |   | <u>_</u> | 130      |          | <u>L.</u> |          | ļ  |  |  | <u> </u> |              | _        | L        |
| 26             | (3)                        | Ц        | 7         | П      | 11.1         | 16             | 12       | 3.       | 3.       | 9            | -            | The same of the | _        | 81       |              |          | <u> </u> |          |          |          |               |       |     |                |   | _        | 131      |          |           | L.       | ļ  |  | <u> </u>   | <u> </u> | $\vdash$     | _        | ⊢        |
| 27             |                            | Ц        | 0         | Ш      | 33           | . 3            | 報        | 12       | â        | Ŀ            | <u> </u>     | 1               | -        | 82       | ⊢            | <u> </u> | <u> </u> | L        |          |          |               |       |     | Н              |   | -        | 132      |          | $\vdash$  | <u> </u> |  | ļ.—  | ⊢  | ├        | -            |          | ├-       |
| 125            | 33                         | V        | Ó         |        | 197          | 50             | 推        | Ģ.       | κ        | 34.1         | ŀ.           | 1               | Ŀ.       | 83       | ├            | -        | <u> </u> | <u> </u> |          | -        |               |       | -   |                |   | -        | 133      | _        | ├         | -        |  | ┝  | -  | <u> </u> | -            | H        | ├        |
| H              | 34                         | <u> </u> | -         | 1      | $\vdash$     | -              | -        | 1        | $\vdash$ | ⊢            | ⊢            | ł               |          | 84       | <del> </del> | -        | H        |          | _        | $\vdash$ |               |       | -   | -              |   | -        | 135      |          | ⊢         | -        |  |  | -  | -        | -            | $\vdash$ | ├        |
| 物:             | 35<br>36                   | 1        | 100       | 120    | ide<br>(de   | THE STATE OF   | 343      | **<br>** | 130      | 27           | 3            | 海流              | 3.       | 85<br>86 | 14           | 23       | F.,      | -        |          |          |               | -     |     | -              |   | -        | 136      | -        | 7         | -        | ├-   | -  |  | 3        | 14           | -        | . 5      |
| 靈              | 37                         | 源        | 灣         | 野葵     | 彩            | 熔              | 数        | ín.      | 44       | 極後           | \$           | 菱               | _        | 87       | <del> </del> | <u> </u> | -        |          | -        | ٠,٠      | _             | -     | -   |                |   | $\vdash$ | 137      |          | ┝╌        | H        | -  | ├  | -  | H        | 3            | ,        |          |
| 1              |                            | 等為       | 製         | 30     | 197          | 199            | ्रंस     | (A)      | 725      | 3            | 41           | 屬               | MAR.     | 88       | ***          | 312      | 3        | 50 g     |          |          |               | -     |     | ÷              |   | -        | 138      |          | H         | -        |  | <del>                                     </del> | -  | -        | 1            | ÷        | 7        |
| 4.             | 39                         | 70.5     | 13        | 7      | 15           | U.             | 13       | 17       | É        | 2            |              | ١.              | -        | 89       | -            | -        | -        |          |          |          | _             |       |     |                |   | ┝        | 139      |          | ┢         | -        | -  | 1  | -  | $\vdash$ | Н            | T        | T        |
| 螥              | 40                         | 3.7      | -         |        | 13           |                | 1        | in.      | 泽        | 烫            | 1.2          | 1327            | 80       | 90       | (ife.        | 13,      | -        |          | -        |          | -             |       |     |                |   | -        | 140      |          |           | 1        | H  | H  | <del>                                     </del> |          | Г            |          | Ι.       |
| 7              | 41                         | 災        |           | 1      | 133          | 100            |          |          | 雅        |              | 10           |                 | 44       | 91       |              | i, F     | 沿        | E.       | 7.7      | 2.       | . ,           | -     | -   | -              |   | ⊢        | 141      | şē;      | , ;       | -        | 1  | ×  | 5  | Û        | 17           | 1.4      | -        |
| 1              | 42                         | 2.2      | 110       | 1 1/9  | 1 22         | iii)           | 蹦        |          |          | >4           | 1            |                 | 572      | 92       |              |          | <u></u>  | ź.).     | ili.     | ,U,      | 9.            | براني | . 1 | 3.5            |   | .4       | 142      | b        | —         | -5       | 5.3  | .:   | ול,  | 102      |              | 3        | 3        |
| 势              | 43                         | 95       | 100       | 200    | - 20         | 138            |          |          | 7.       |              | 3            | 1931            | 3/2      | 93       |              | 92.      | 7        | F55**    | 3,254    | 3.08     | - 23-         | , ,,  | , Z | · ·            |   | ۳        | 143      |          | 1 .       |          | ~^   | <u> </u>   | -  |          | 1.7          | -        | · 7      |
| 770            | 44                         | ×.       | 3         | 17.    | 100          | .7             | 5.4      | 14:      |          | 1.           | 77           | 1 1.            | _        | 94       |              |          | -        |          | -        | -        |               | -     |     | $\vdash$       |   |          | 144      |          | _         |          | <del>                                     </del> | -  |  | $\vdash$ | Г            | $\vdash$ |          |
| 144            | 45                         |          |           |        | die.         | n. 7 ·         |          | è        | =        |              |              |                 | -        | 95       | -            | -        | -        |          | -        |          |               | -     | -   |                |   |          | 145      |          | -         | T        | Ι  | -  |  |          |              | Г        | $\vdash$ |
|                | 46                         | T,       | 17        | (4)    | 1            | 5,5            | 4        | 33       | 殊        | 1            | 100          | 1.3             |          | 96       | -            | -        | 1.       |          |          | į        |               |       |     |                |   |          | 146      | _        |           | -        | 14   |  | 11   |          | 1            |          |          |
| l v            | 44                         | 100      | 100       | 18     |              | 214            | 20       | 133      | ī.t      | Ė            | 1,5          | 認               | N.       |          |              |          |          | *7       | -73      | 7        | Per           | 9.7   | 43  | 32             | 1 | 12       | 147      |          | ÷,        | 1        | 17   | -3   | g;   | 1        | 43           | -        | 1        |
|                | 48                         | Ų.       | *         | W.     | 潜            | 179            | 3        | 1.       | 7.4      | 1            | d            | の意味             |          | 98       |              | *        |          | 8,       | 7        | <u> </u> | $\overline{}$ |       |     | Г              | 1 | Г        | 148      | -        |           |          |  |  |  |          |              |          | L        |
| 8              | 49                         | 'n       | 2.7       | 1      | 16           | 00             | 1        | 7        | 1994     | ※            | 8            | . dr            |          | 99       | 15           | -        | 1        | 17.      | 1        | -        |               |       |     |                |   |          | 149      |          | ë.        |          | Ŀ  | ŀ  | . !  | Ŀ        | -            | Ŀ        | L        |
| 1              | 45<br>46<br>48<br>49<br>50 | 30       | 100       | 7.     | 華            | 114            | 14       | 33       | 34       | 43           | -3           |                 | i.       | 100      | 15           | 10       | gri.     | 毙        |          | ii.      |               |       | С   |                |   |          | 150      | •        |           | ;·       |  |  | ů.   | Ŀ        | 14           | <u> </u> |          |
| C.             | 277                        | 14       | 441.3     | 184    |              | 180            | · W      | 4.47     | 775      | .)           | 1.5          | 1               | 4.5      |          | 18,4         |          | 1. 74    |          |          | . ~      | ٠٠.           |       | - 3 | ALTERNATION IN | - |          | -        | 1-       | 21.       |          | 1  | ď.   | J 45.  |          | 1            | 17.      | 11.      |

If more than 150 claims or 10 actions